Amdt. Dated Dec. 22, 2003

Reply to Office Action of Sept. 22, 2003

Replacement Sheet

CACGAGGCCGACGCGCAGCTGGGAGGAAGACAGGACCCTTGACATCTCCATCTGCACAGA GGTCCTGGCTGGACCGAGCAGCCTCCTCCTCCTAGGATGACCTCACCCTCCAGCTCTCCA M T S P S S S P

GTTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGCGGACAGAGGA V F R L E T L D G G Q E D G S E A D R G

AAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAGTCACAGTTCCAGGGCGAGGACCGG K L D F G S G L P P M E S Q F Q G E D R

AAATTCGCCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGGAACAGGTGCCAGTCAG K F A P O I R V N L N Y R K G T G A S O

CCGGATCCAAACCGATTTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCC P D P N R F D R D R L F N A V S R G V P

GAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAAGACCAGCAAGTACCTCACCGACTCG DLAGLPEYLSKTSKYLTDS

GAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGATGAAGGCTGTGCTGAACCTTAAG EYTEGSTGKTCLMKAVLNLK

GACGGAGTCAATGCCTGCATTCTGCCACTGCTGCAGATCGACAGGGACTCTGGCAATCCT D G V N A C I L P L L Q I D R D S G N P

CAGCCCTGGTAAATGCCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC Q P L V N A Q C T D D Y Y R G H S A L H

ATCGCCATTGAGAAGAGGAGTCTGCAGTGTGTAAGCTCCTGGTGGAGAATGGGGCCAAT I A I E K R S L Q C V K L L V E N G A N

GTGCATGCCCGGGCCTGCGGCCGCTTCTTCCAGAAGGGCCAAGGGACTTGCTTTTATTTC V H A R A C G R F F Q K G Q G T C F Y F

GGTGAGCTACCCCTCTTTTGGCCGCTTGCACCAAGCAGTGGGATGTGGTAAGCTACCTC G E L P L S L A A C T K Q W D V V S Y L

CTGGAGAACCCACACCAGCCCGCCAGCCTGCAGGCCACTGACTCCCAGGGCAACACAGTC L E N P H Q P A S L Q A T D S Q G N T V

CTGCATGCCCTAGTGATGATCTCGGACAACTCAGCTGAGAACATTGCACTGGTGACCAGC LHALVMISDNSAENIALV

ATGTATGATGGGCTCCTCCAAGCTGGGGCCCGCCTCTGCCCTACCGTGCAGCTTGAGGAC $\begin{smallmatrix} M & Y & D & G & L & L & Q & A & G & A & R & L & C & P & T & V & Q & L & E & D \\ \end{smallmatrix}$

ATCCGCAACCTGCAGGATCTCACGCCTCTGAAGCTGGCCGCCAAGGAGGGCAAGATCGAG RNLQDLTPLKLAAKEGKIE

ATTTTCAGGCACATCCTGCAGCGGGAGTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTC I F R H I L Q R E F S G L S H L S R K F

ACCGAGTGGTGCTATGGGCCTGTCCGGGTGTCGCTGTATGACCTGGCTTCTGTGGACAGC T E W C Y G P V R V S L Y D L A S V D S

TGTGAGGAGAACTCAGTGCTGGAGATCATTGCCTTTCATTGCAAGAGCCCGCACCGACAC

CEENSVLEIIAFHCKSPHRH

CGAATGGTCGTTTTGGAGCCCCTGAACAACTGCTGCAGGCGAAATGGGATCTGCTCATC R M V V L E P L N K L L Q A K W D L L I

CCCAAGTTCTTCTTAAACTTCCTGTGTAATCTGATCTACATGTTCATCTTCACCGCTGTT

FIG. 1A



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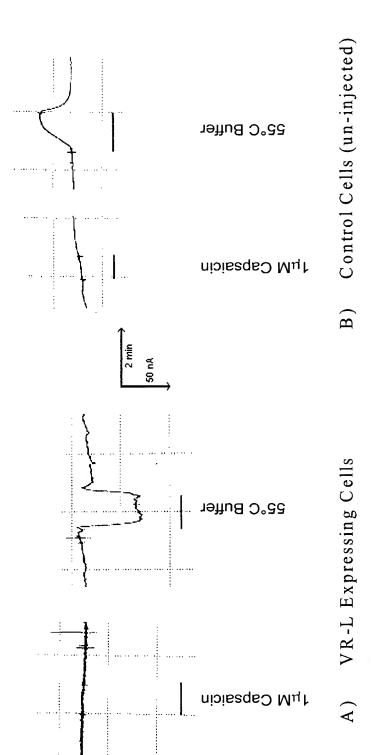
Replacement Sheet

PKFFLNFLCNLIYMF GCCTACCATCAGCCTACCCTGAAGAAGCAGGCCGCCCCTCACCTGAAAGCGGAGGTTGGA Y H O P T L K K O A A P H L K A E V G AACTCCATGCTGACGGGCCACATCCTTATCCTGCTAGGGGGGATCTACCTCCTCGTG S M L L T G H I L I L L G G I Y L L V GGCCAGCTGTGGTACTTCTGGCGGCGCCACGTGTTCATCTGGATCTCGTTCATAGACAGC G O L W Y F W R R H V F I W I S F I D S TACTTTGAAATCCTCTTCCTGTTCCAGGCCCTGCTCACAGTGGTGTCCCAGGTGCTGTGT FEILFLFQALLTVVSQVLC F L A I E W Y L P L L V S A L V L G W L AACCTGCTTTACTATACACGTGGCTTCCAGCACACGGCATCTACAGTGTCATGATCCAG L L Y Y T R G F Q H T G I Y S V M I Q AAGGTCATCCTGCGGGACCTGCTGCGCTTCCTTCTGATCTACTTAGTCTTCCTTTTCGGC VILRDLLRFLLIYLVFLFG TTCGCTGTAGCCCTGGTGAGCCTGAGCCAGGAGGCTTGGCGCCCCGAAGCTCCTACAGGC F A V A L V S L S Q E A W R P E A P T G CCCAATGCCACAGAGTCAGTGCAGCCCATGGAGGGACAGGAGGACGAGGGCCAACGGGGCC N A T E S V Q P M E G Q E D E G N G A CAGTACAGGGGTATCCTGGAAGCCTCCTTGGAGCTCTTCAAATTCACCATCGGCATGGGC YRGILEASLELFKFTIGMG GAGCTGCCTTCCAGGAGCAGCTGCACTTCCGCGGCATGGTGCTGCTGCTGCTGCTGCCC LAFOEOLHFRGMVLLLLLA TACGTGCTGCTCACCTACATCCTGCTCCTCAACATGCTCATCGCCCTCATGAGCGAGACC YVLLTYILLLNMLIALMSET GTCAACAGTGTCGCCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTC N S V A T D S W S I W K L Q K A I CTGGAGATGGAGAATGGCTATTGGTGGTGCAGGAAGAAGCAGCGGGCAGGTGTGATGCTG L E M E N G Y W W C R K K Q R A G V M L ACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGGTGCTTCAGGGTGGAGGAG V G T K P D G S P D E R W C F R V E GTGAACTGGGCTTCATGGGAGCAGACGCTGCCTACGCTGTGTGAGGACCCGTCAGGGGCA V N W A S W E Q T L P T L C E D P S G A GGTGTCCCTCGAACTCTCGAGAACCCTGTCCTGGCTTCCCCTCCCAAGGAGGATGAGGAT V P R T LENPVLASPPKEDED GGTGCCTCTGAGGAAAACTATGTGCCCGTCCAGCTCCTCCAGTCCAACTGATGGCCCAGA A S E E N Y V P V Q L L Q S N TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTCCAACCACATCTGCTGGCTCTGG **GGTCCCAGT**



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